

Title (en)
CONICAL HONEYCOMBED BODY.

Title (de)
KONISCHER WABENKÖRPER.

Title (fr)
CORPS CONIQUE EN NID D'ABEILLES.

Publication
EP 0635097 B1 19950913 (DE)

Application
EP 93921728 A 19930318

Priority
• DE 4211275 A 19920403
• EP 9300639 W 19930318

Abstract (en)
[origin: WO9320339A1] A metallic honeycombed body has an axis (1) and a conical tubular envelope (2) with respect to the axis (2) into which is fitted an arrangement of at least one stack (3) wound around the axis (1) in the manner of an involute. The stack (3) has a plurality of tiered metal sheets (4, 5), including a plurality of corrugated metal sheets (5). Each metal sheet (4, 5) is designed as a ring segment and is delimited by an outer arc (7) approximately circular with respect to a central point (6), as well as by an approximately circular inner arc (8) concentric with respect to the outer arc (7) and located between the outer arc and the central point (6). Each corrugated metal sheet (5) has corrugations that are approximately radially oriented with respect to the central point (6) and have a determined height (h1, h2) in each arc (7, 8). The arcs (7, 8) have lengths (s1, s2) whose ratio is approximately the same as the ratio between the corresponding corrugation heights (h1, h2). This honeycombed body is particularly suitable as a support for a catalyst in the exhaust system of an internal combustion engine that drives a motor vehicle, for example, and is associated as a "pre-catalyst" to an usual, axially straight honeycombed body with a catalyst.

IPC 1-7
F01N 3/28; **B01J 35/04**

IPC 8 full level
F01N 3/24 (2006.01); **B01D 53/86** (2006.01); **B01J 35/04** (2006.01); **F01N 3/28** (2006.01)

CPC (source: EP KR US)
B01J 35/56 (2024.01 - EP KR US); **F01N 3/28** (2013.01 - KR); **F01N 3/281** (2013.01 - EP US); **F01N 3/2821** (2013.01 - EP US); **F01N 3/2892** (2013.01 - EP US); **F01N 2260/18** (2013.01 - EP US); **F01N 2330/04** (2013.01 - EP US); **Y02A 50/20** (2017.12 - EP US); **Y10S 493/966** (2013.01 - EP US); **Y10T 428/24149** (2015.01 - EP US); **Y10T 428/24744** (2015.01 - EP US)

Designated contracting state (EPC)
DE ES FR GB IT SE

DOCDB simple family (publication)
WO 9320339 A1 19931014; BR 9306181 A 19980623; CN 1047650 C 19991222; CN 1078196 A 19931110; DE 59300601 D1 19951019; EP 0635097 A1 19950125; EP 0635097 B1 19950913; ES 2079983 T3 19960116; JP 2640571 B2 19970813; JP H07505329 A 19950615; KR 100201661 B1 19990615; KR 950701037 A 19950220; MX 9301852 A 19940228; RU 2107828 C1 19980327; RU 94045809 A 19961020; TW 247340 B 19950511; US 5506028 A 19960409

DOCDB simple family (application)
EP 9300639 W 19930318; BR 9306181 A 19930318; CN 93104094 A 19930403; DE 59300601 T 19930318; EP 93921728 A 19930318; ES 93921728 T 19930318; JP 51702193 A 19930318; KR 19940703391 A 19940929; MX 9301852 A 19930331; RU 94045809 A 19930318; TW 82102299 A 19930326; US 31664294 A 19940930